

1/5

MDQSSRRDES YHETHPGSLDPHQSHPHPHPTLHRPNQGVVYDSPQH 50
 GMFQOPYQQHGGFHQQNELQHLREFSDSHDNAFSHHSYQQDRAGVSTLPN 100
 NI SHAYGGSHPLAESQSHSGPGQSGPRIDPNHHPHQDDPHRSEPLSPSS 150
 TGS HQGTTHQOYHERSHHLNPQQNRDHADTI SYRSSTRFYRSHAPFSRQE 200
 RPHLHADHHHGHGHHGHEHPHKEQRHYHGDHMHHTHHRSPSAQL 250
 SHKSHSTLATSPSHVSGSKSTASGARYTFGARSOIFGKAQGRESLRESASL 300
 SEGEDHVQKRKAQRAHKKAHTGNIFQLLWEKISHLLGLQQMILSLTQS 350
 S1
 LGFETFI FIVVCLNTVILVAQT FTELEIRGEWYFMVLDSIFLSIYVLEAV 400
 S3
 LKLIATL GLEYFYDPWNLLDFFIMVMAVLDFVLLQINSI SYSPYNHSL FRI 450
 S4
 LKVFKSMRAURAIRVLRRLS ILTSLHEVAGT LSGSLPS ITAILTLMFTCL 500
 S5
 FLFSWVLRAL FQDSDPKRFQNI FTTTLFTLFTMLTLDWLSL IVIDNRAQGA 550
 S6
 WYIIPILMIVYIYQYFIFLNIVIAVLVDNFQMAL LKGLEKVKLEQAARVH 600
 EKLLDDSLTDINKADANAQMTTEALKMQL IEGFMGNMTVKQRVLHFQFLQ 650
 LVAAVEHQHQKFRSQAYVIDELVDMAFEAGDDDYGK 686

FIG. 1A

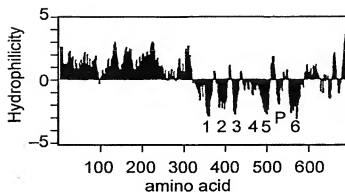


FIG. 1B

Pore region	
CatSper	RFQNIFFTLLFTLFTMLTLDOWSLIYID
Cav1.2	NFDNFAFAMLTVFQCIIMEGWTDVLYN
I Cav2.2	NFDNILEAILTVFQCIIMEGWTDILYN
Cav3.1	NFDNIGYAWIAIFQVITLEGWVDIMYF
Cav1.2	TFDNFPQSLLTVFQILITGEDWNSVMYD
II Cav2.2	NFDTFPAAILTVFQILITGEDWNAVMYN
Cav3.1	NFDSLLWAIIVTVFQILITGEDWNKVLYN
Cav1.2	DFDNVLAAMMAFLTSTFEGWPPELLYR
III Cav2.2	HYDNVLWALLTLFTVSTGEGWPMYLLK
Cav3.1	NFDNLGQALMSLFVLASKOGWVDIMYD
Cav1.2	NFQTFPQAVLLLP RCATGEAWQDIMLA
IV Cav2.2	NFTFLQALMLLFRSATGEAWHEIMLS
Cav3.1	TFRNFGMAFLTFLFRVSTGDNWNGIMKO

FIG. 1C

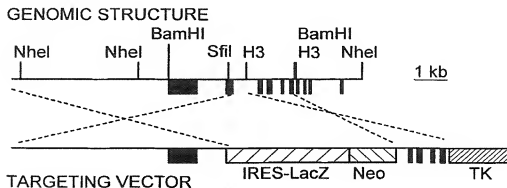


FIG. 2

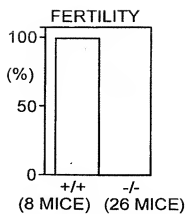


FIG. 3A

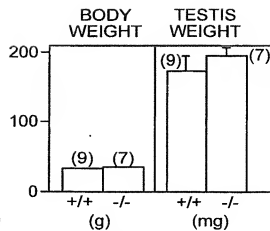


FIG. 3B

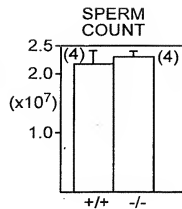


FIG. 3C

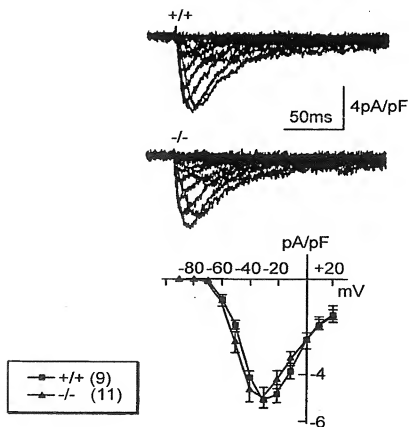


FIG. 3D

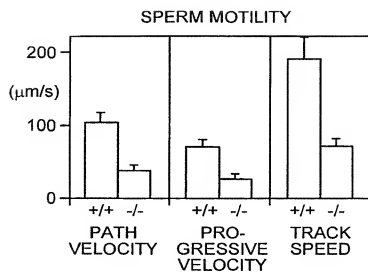


FIG. 4A

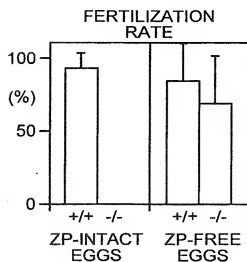


FIG. 4B

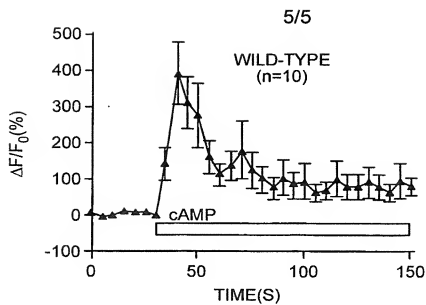


FIG. 5A-1

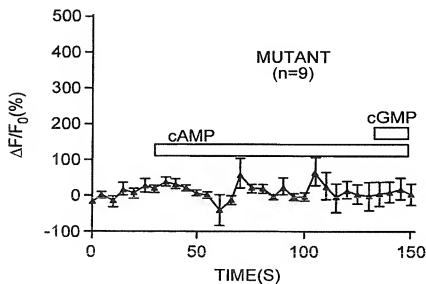


FIG. 5A-2

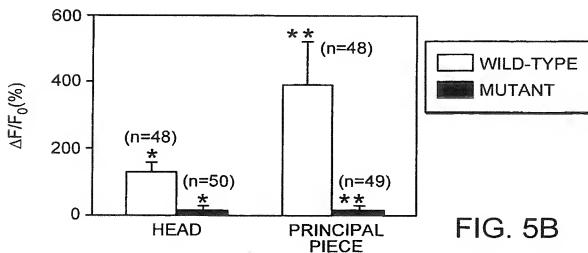


FIG. 5B